

1 / 18

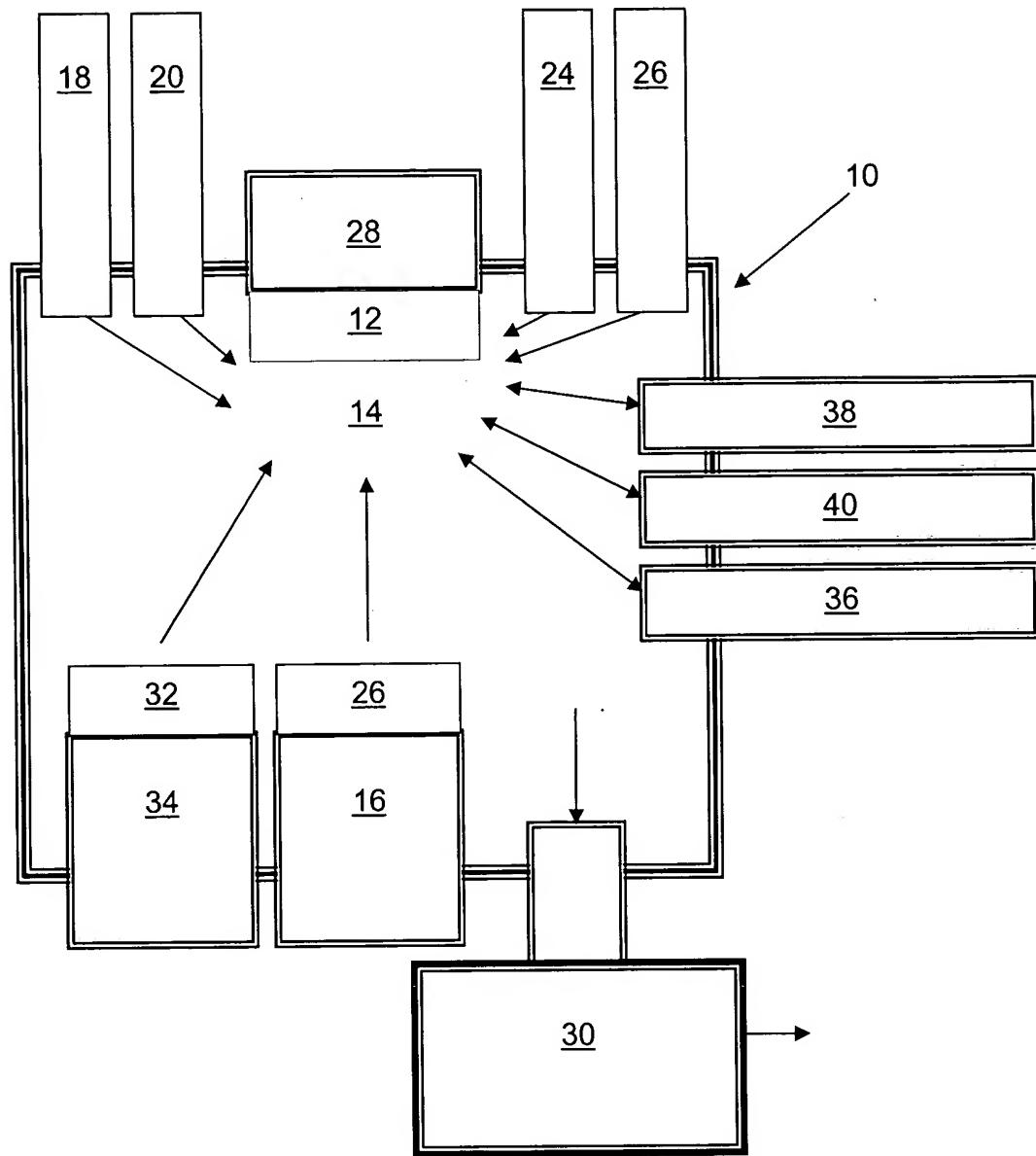


Fig. 1

2 / 18

ZnO thickness ~ 500 nm/Si

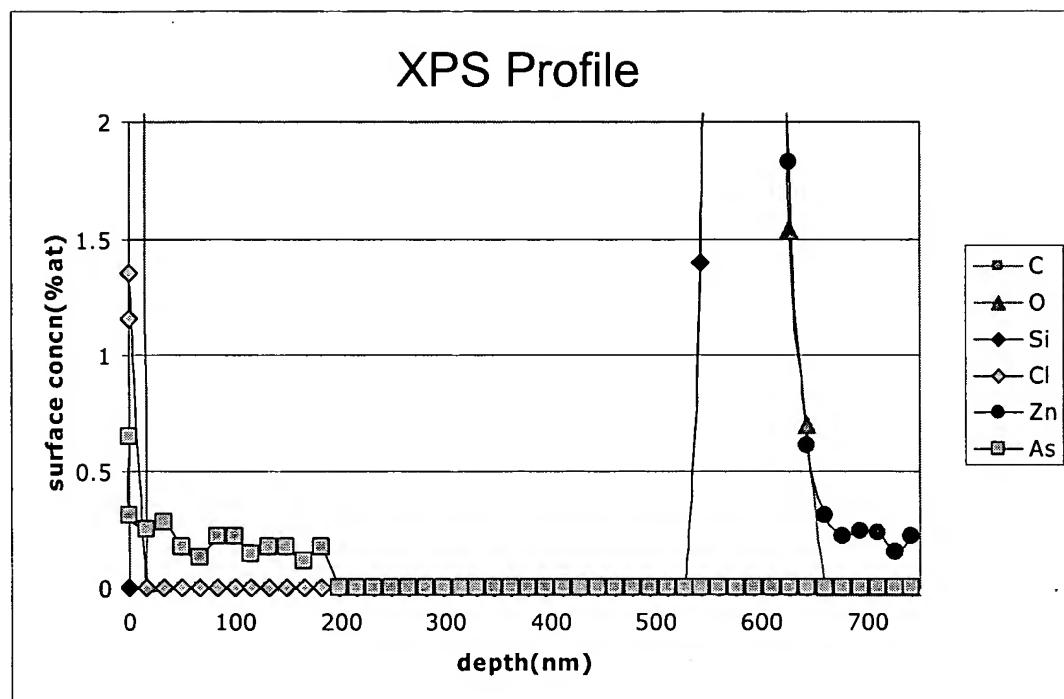


Fig. 2

P-type ZnO: Photoluminescent Comparisons

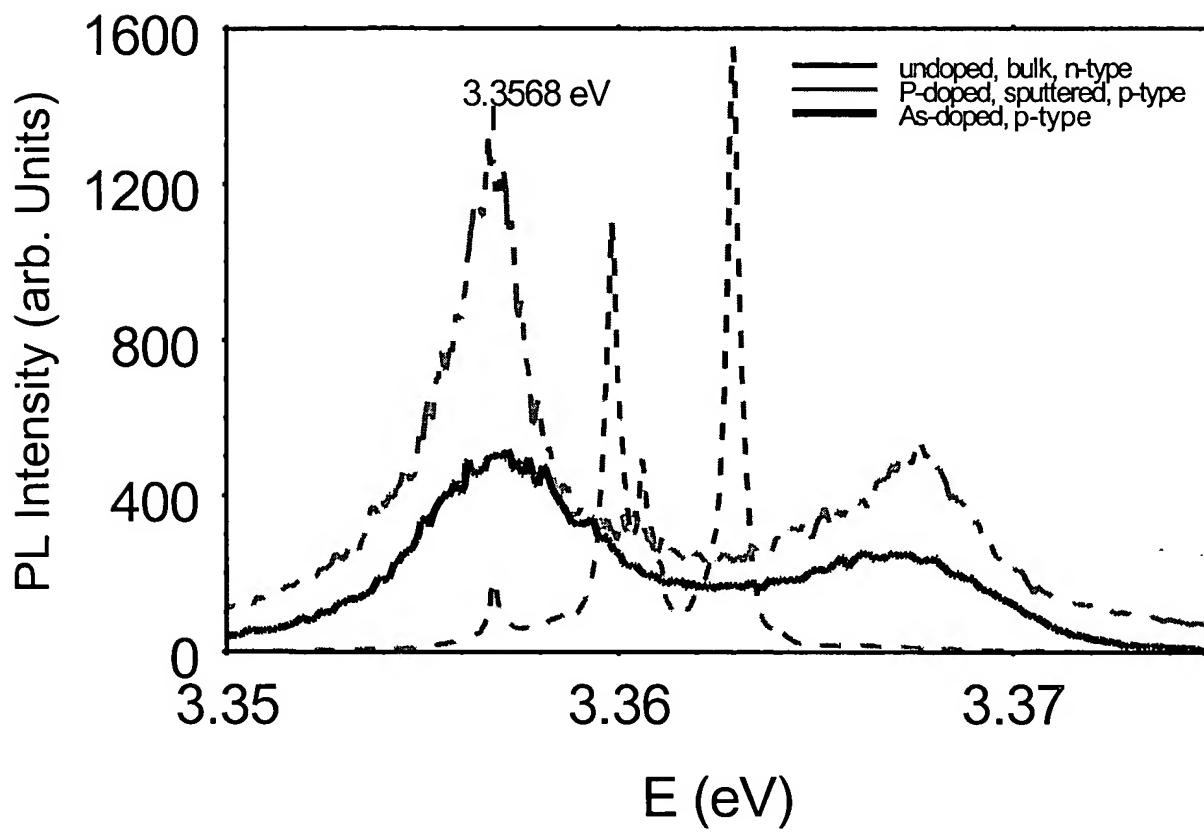


Fig. 3

4 / 18

Resistance & Mobility of As doped ZnO

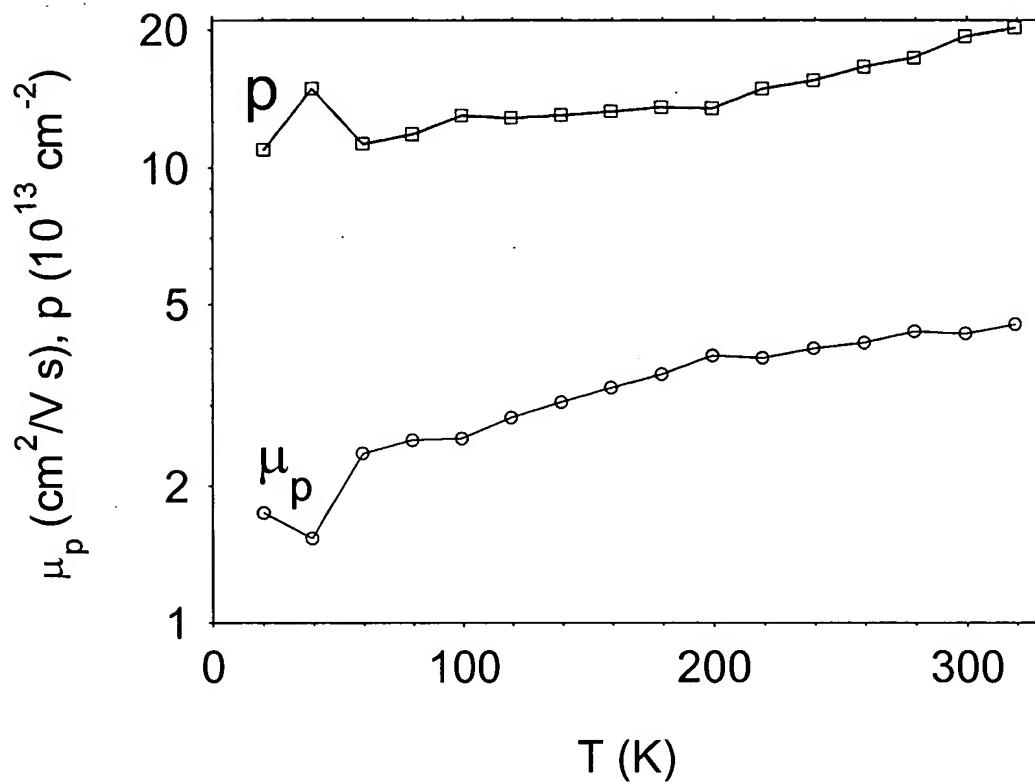


Fig. 4

5 / 18

SIMS Data Showing Concentration vs. Depth

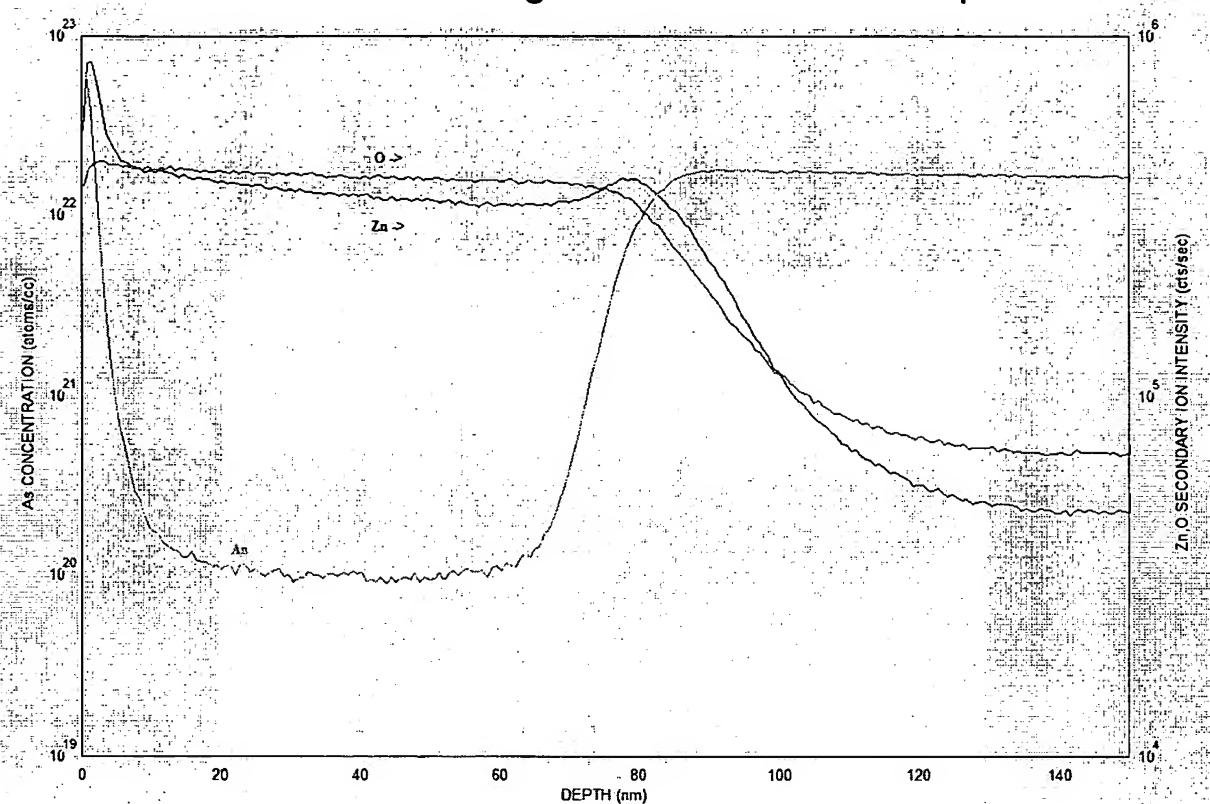


Fig. 5

Title: P-TYPE GROUP II-VI SEMICONDUCTOR COMPOUNDS

Inventors: Robert H. Burgener, II et al..

Docket No.: 3398.2.9

6 / 18

Polycrystalline Zinc Oxide XRD Pattern

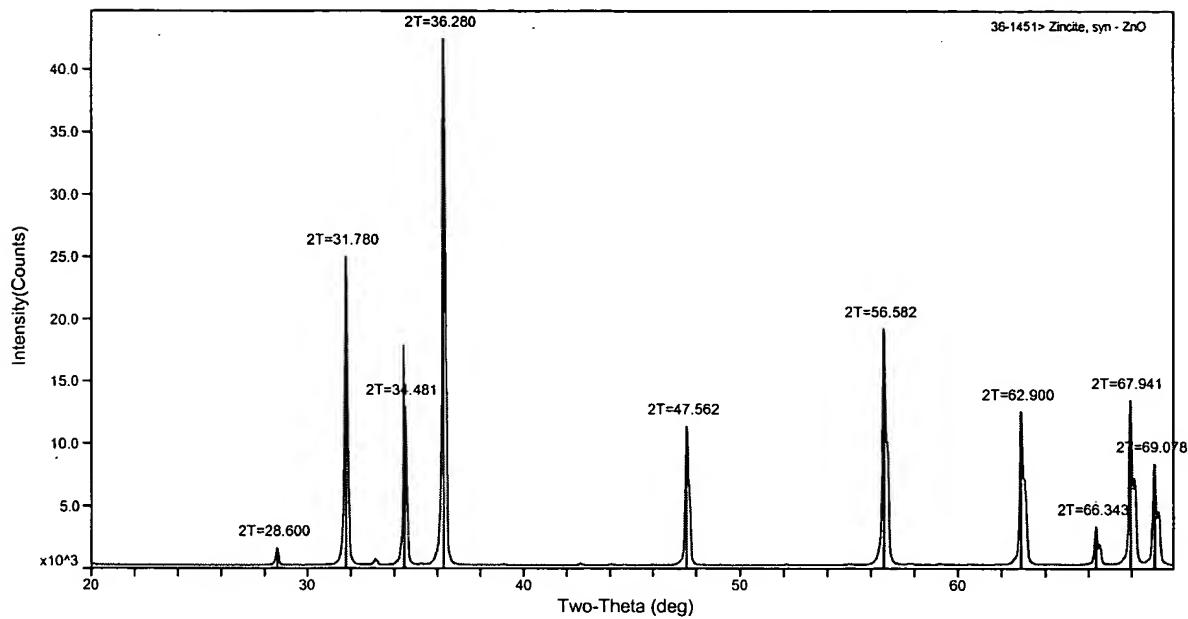


Fig. 6

Title: P-TYPE GROUP II-VI SEMICONDUCTOR COMPOUNDS

Inventors: Robert H. Burgener, II et al.

Docket No.: 3398.2.9

7 / 18

Zinc Oxide XRD Pattern
Showing Single Crystal (002) Plane

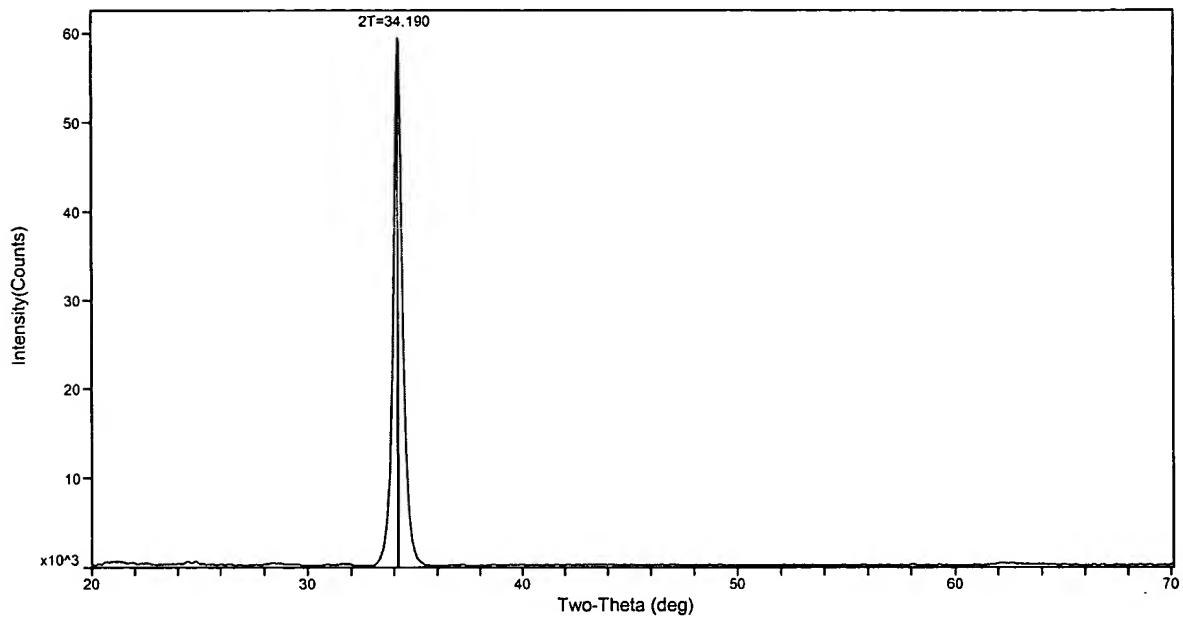


Fig. 7

8 / 18

Antimony Concentration In Zinc Oxide
Atoms/cm³ verses Depth Into The Surface

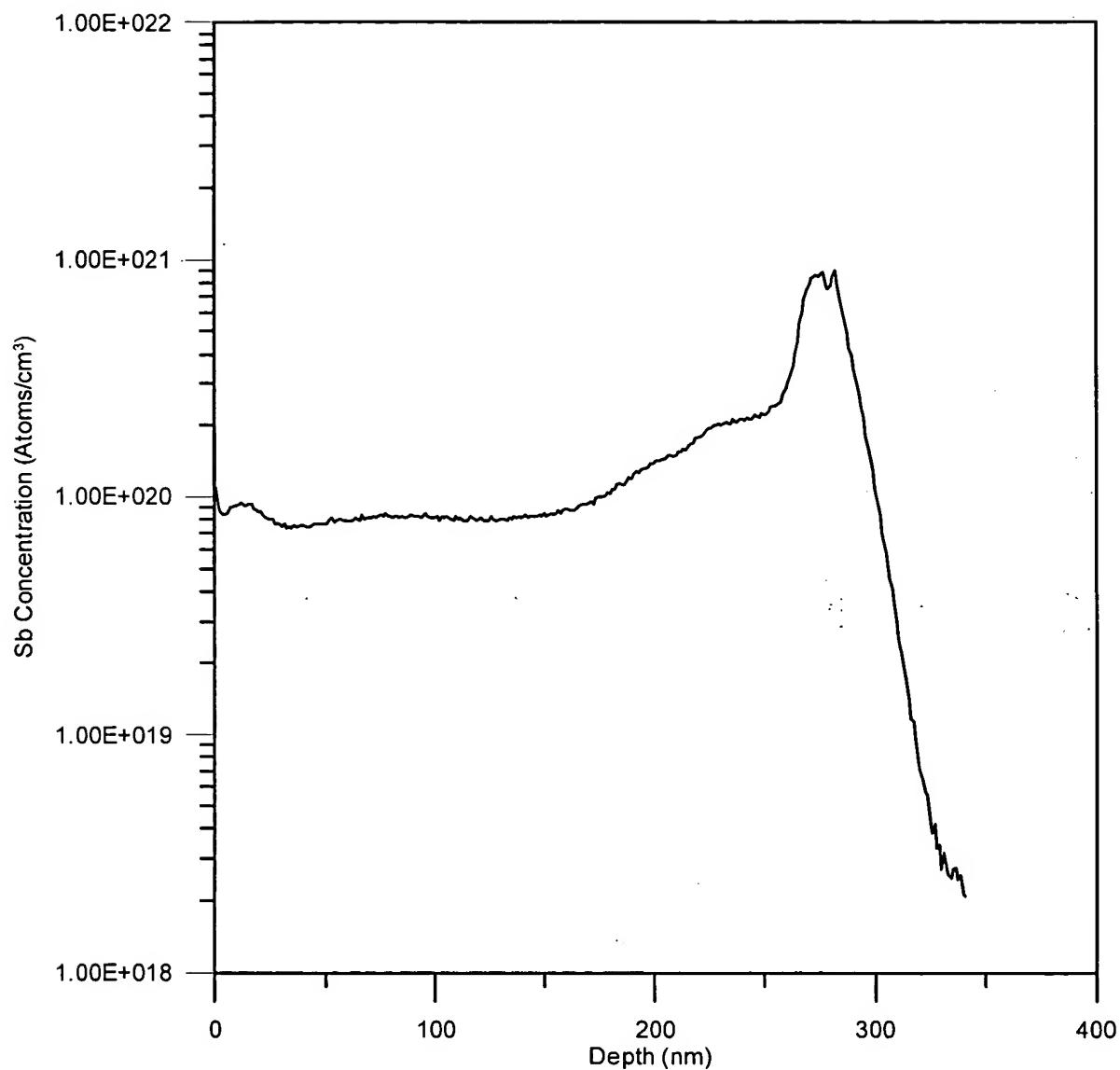


Fig. 8

Title: P-TYPE GROUP II-VI SEMICONDUCTOR COMPOUNDS

Inventors: Robert H. Burgener, II et al.

Docket No.: 3398.2.9

9 / 18

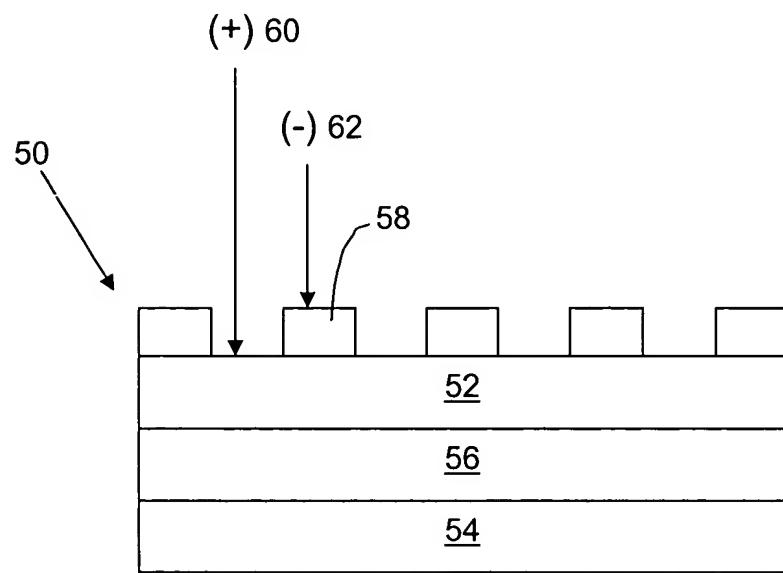


Fig. 9

Title: P-TYPE GROUP II-VI SEMICONDUCTOR COMPOUNDS

Inventors: Robert H. Burgener, II et al.

Docket No.: 3398.2.9

10 / 18

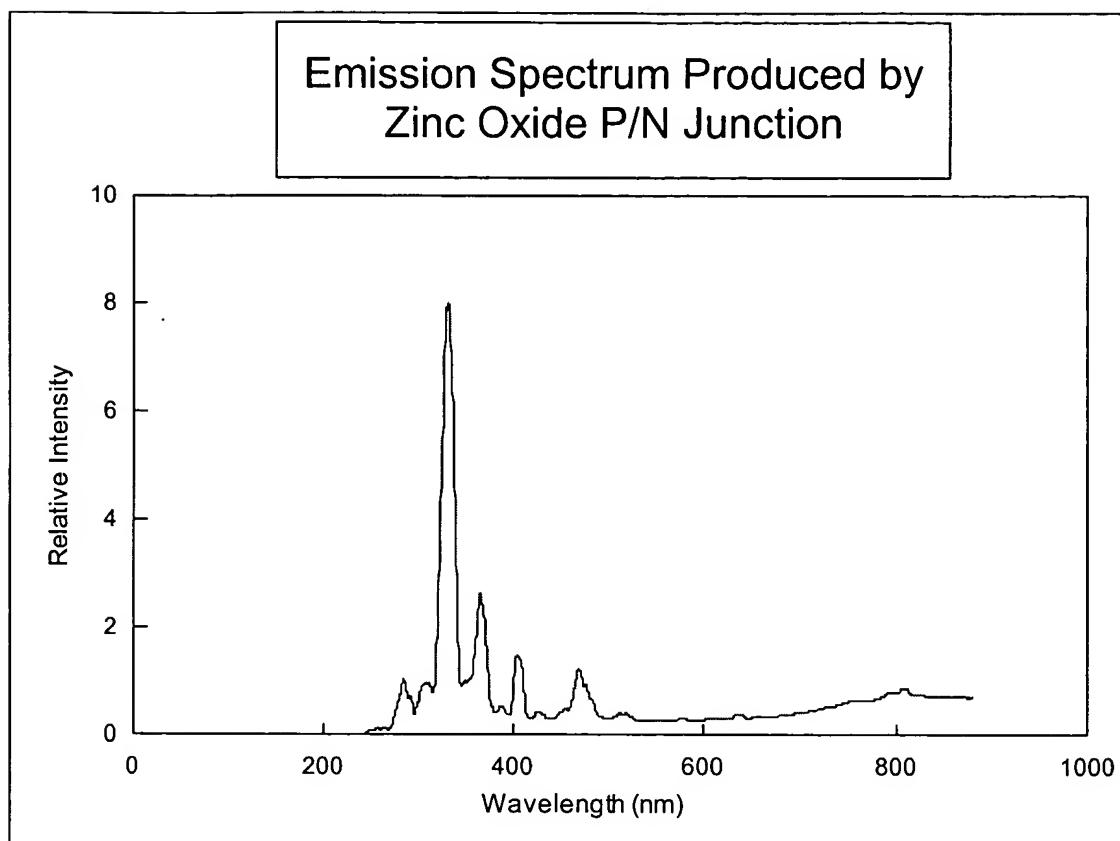


Fig. 10

11 / 18

Current - Voltage Plot of a Zinc Oxide P/N Junction

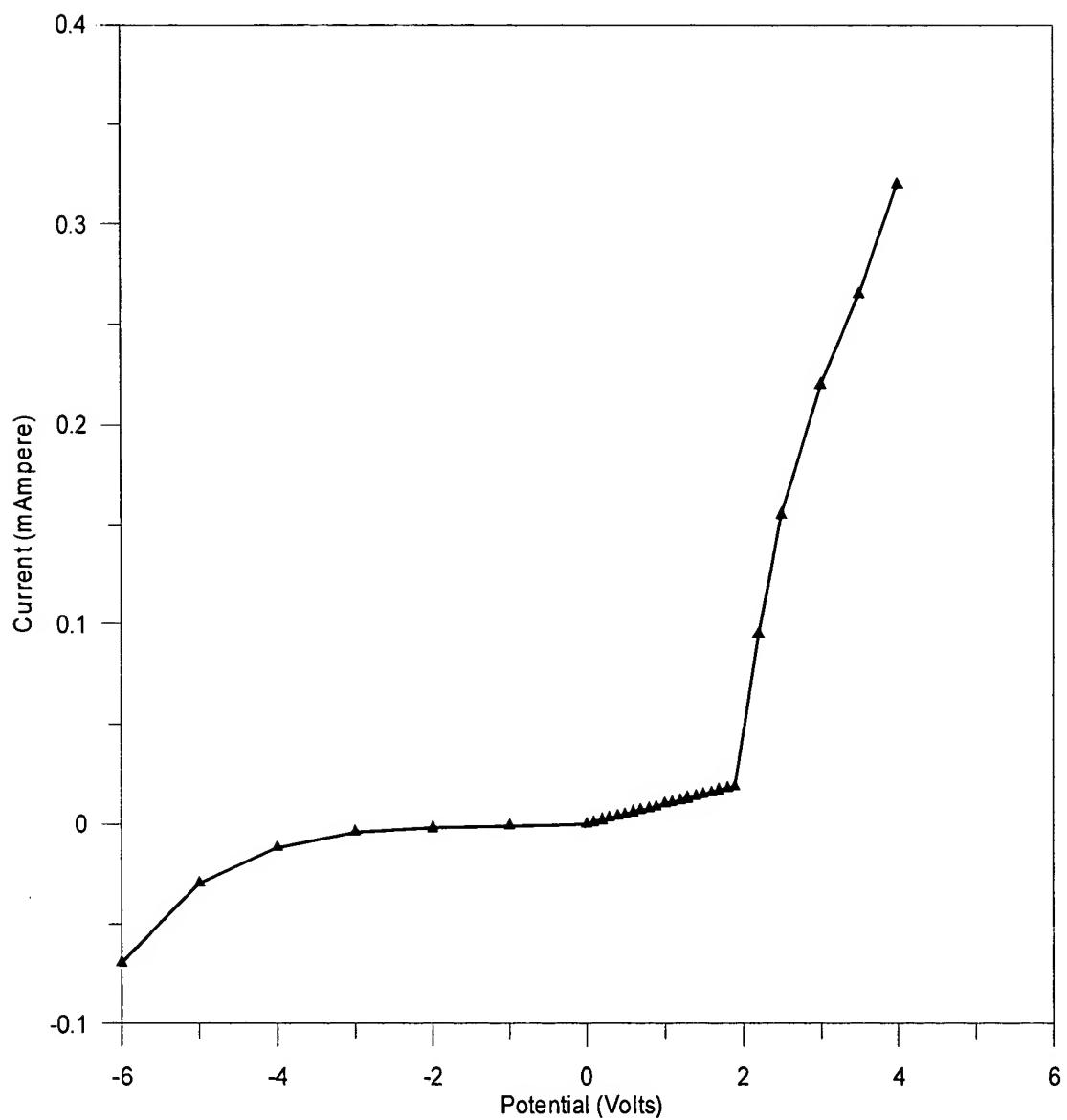


Fig. 11

12 / 18

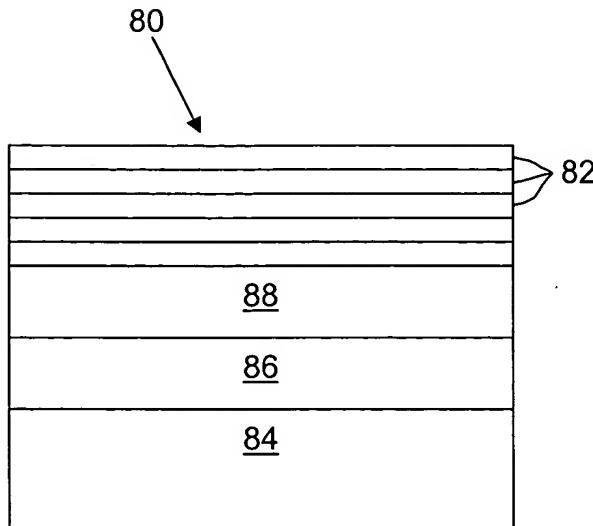


Fig. 12A

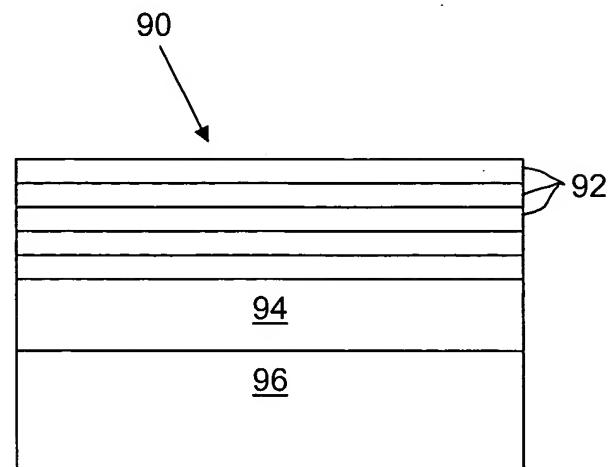


Fig. 12B

13 / 18

Zinc - Oxygen - Arsenic Ternary Diagram

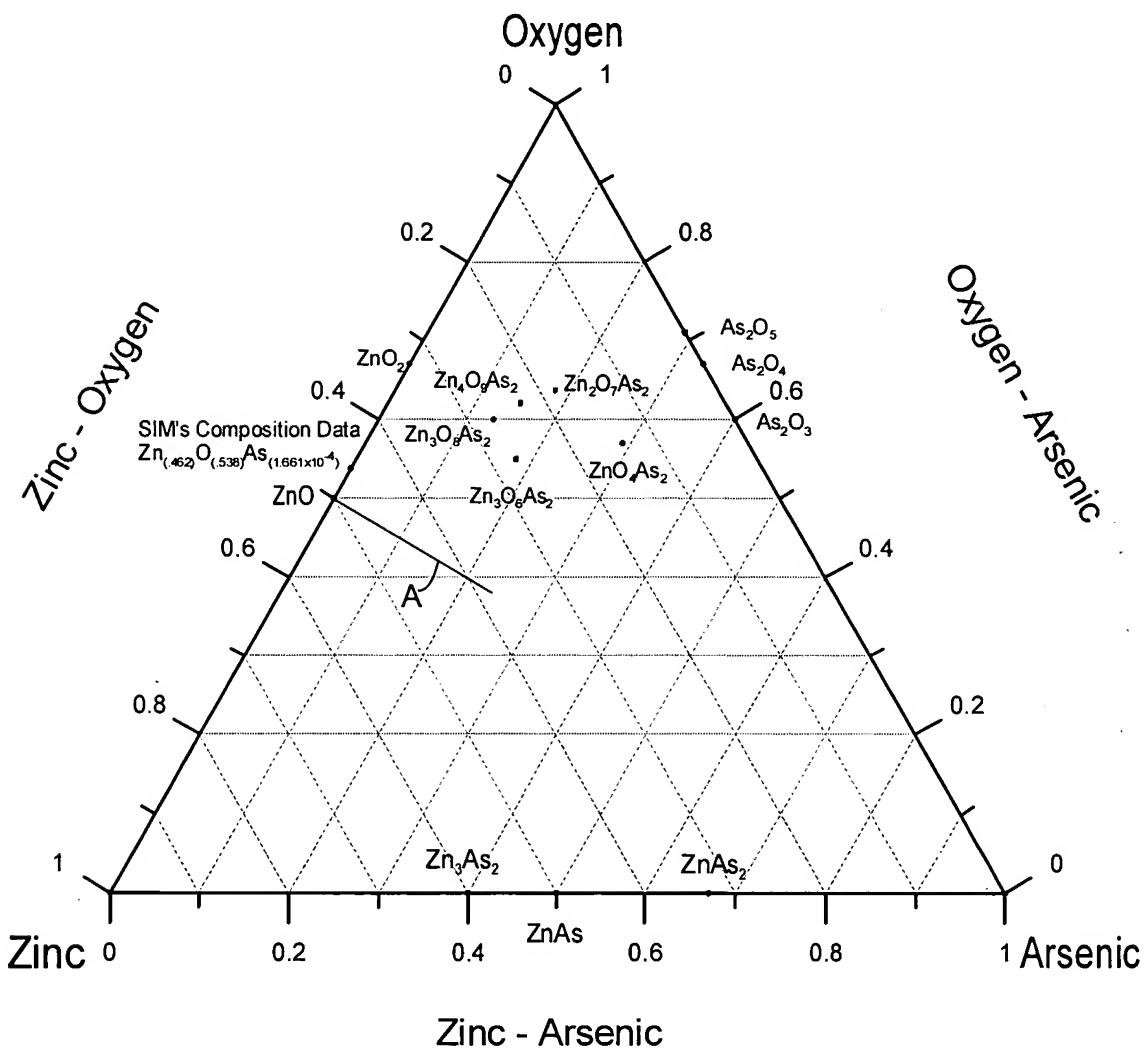


Fig. 13A

14 / 18

Zinc - Oxygen - Arsenic Ternary Diagram

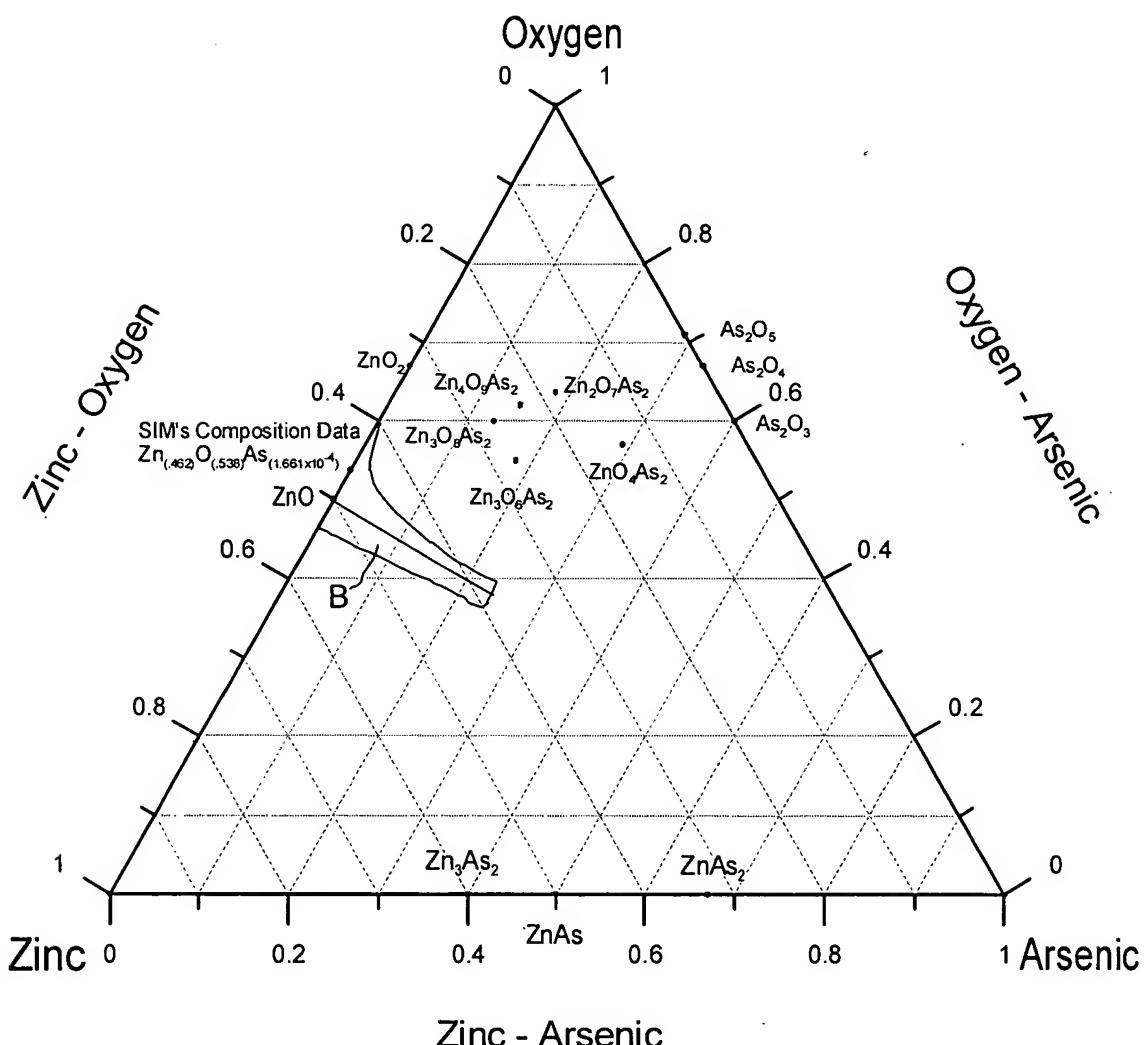


Fig. 13B

15 / 18

Zinc - Oxygen - Antimony Ternary Diagram

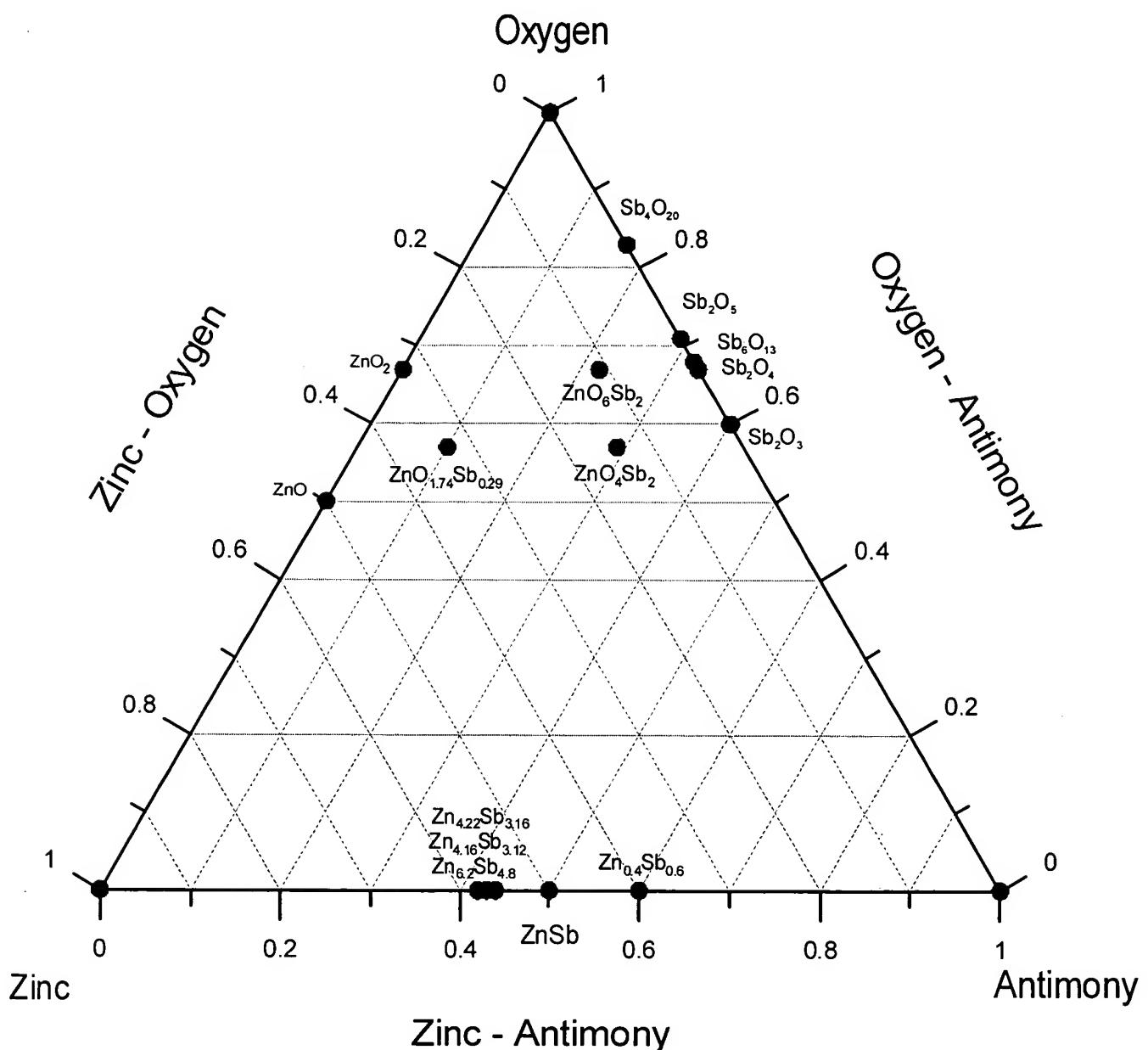


Fig. 14

16 / 18

Zinc - Oxygen - Phosphorus Ternary Diagram

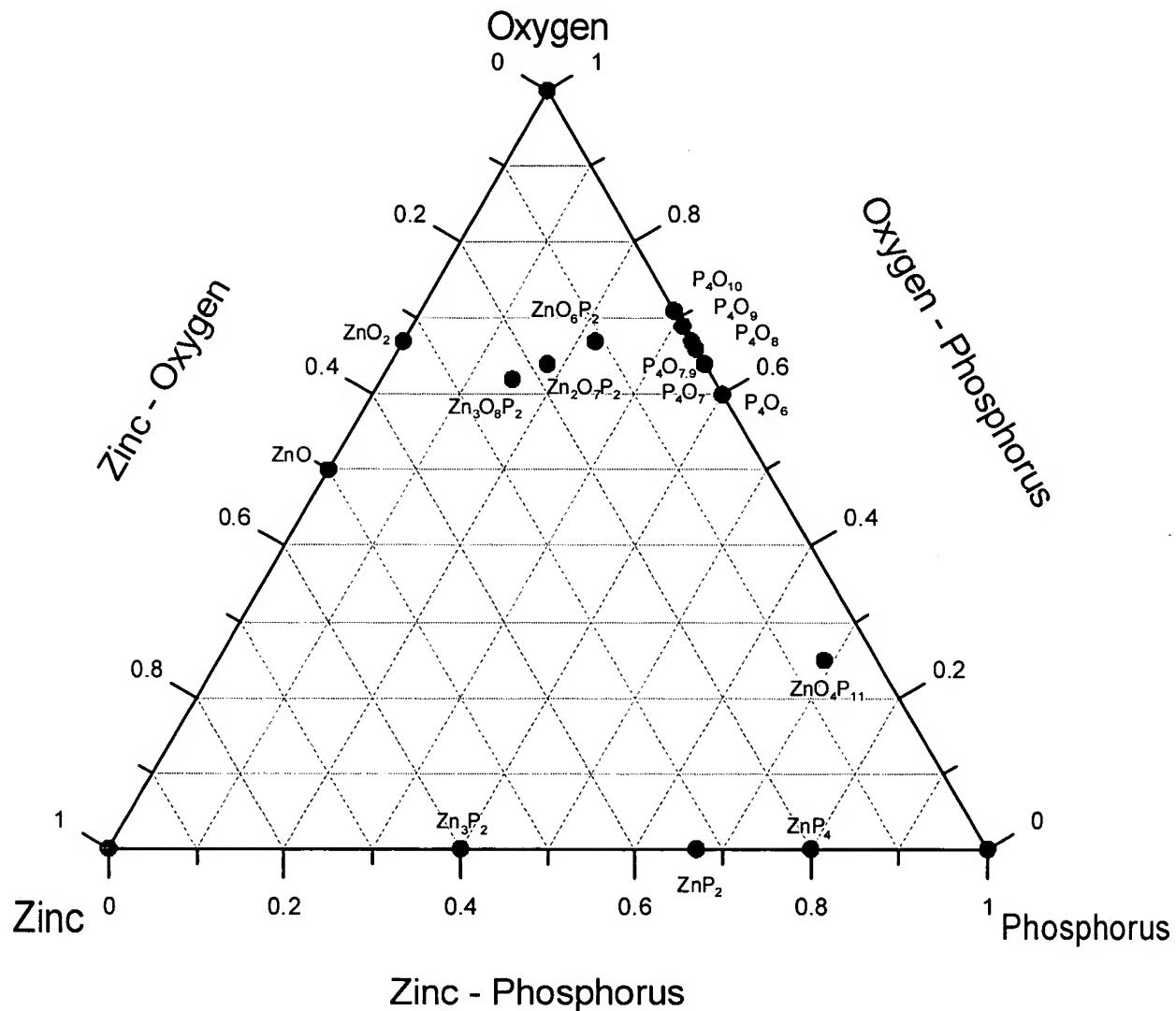


Fig. 15

17 / 18

Zn - O - Bi Ternary Diagram

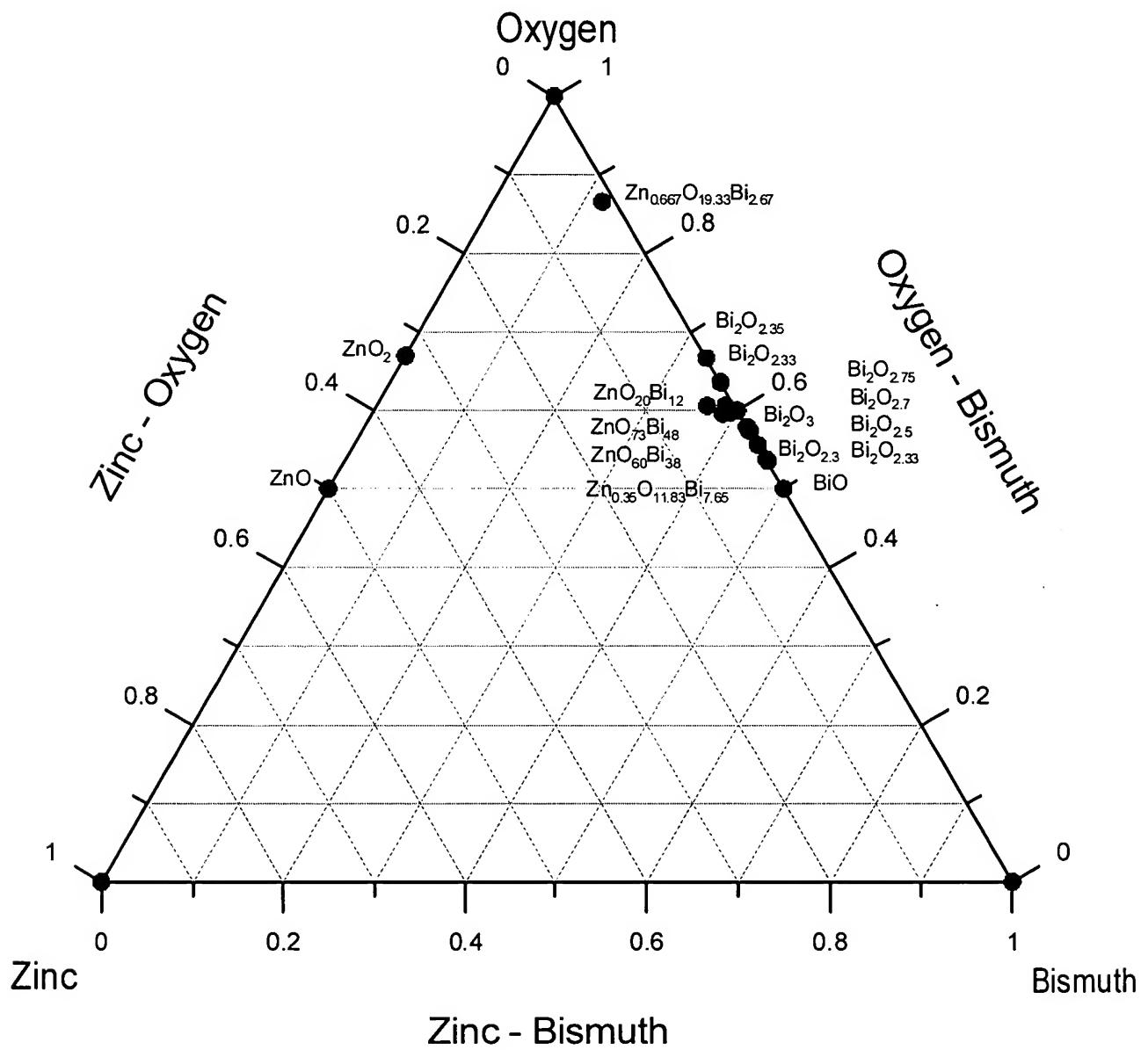


Fig. 16

18 / 18

Zn - O - Cu Ternary Diagram

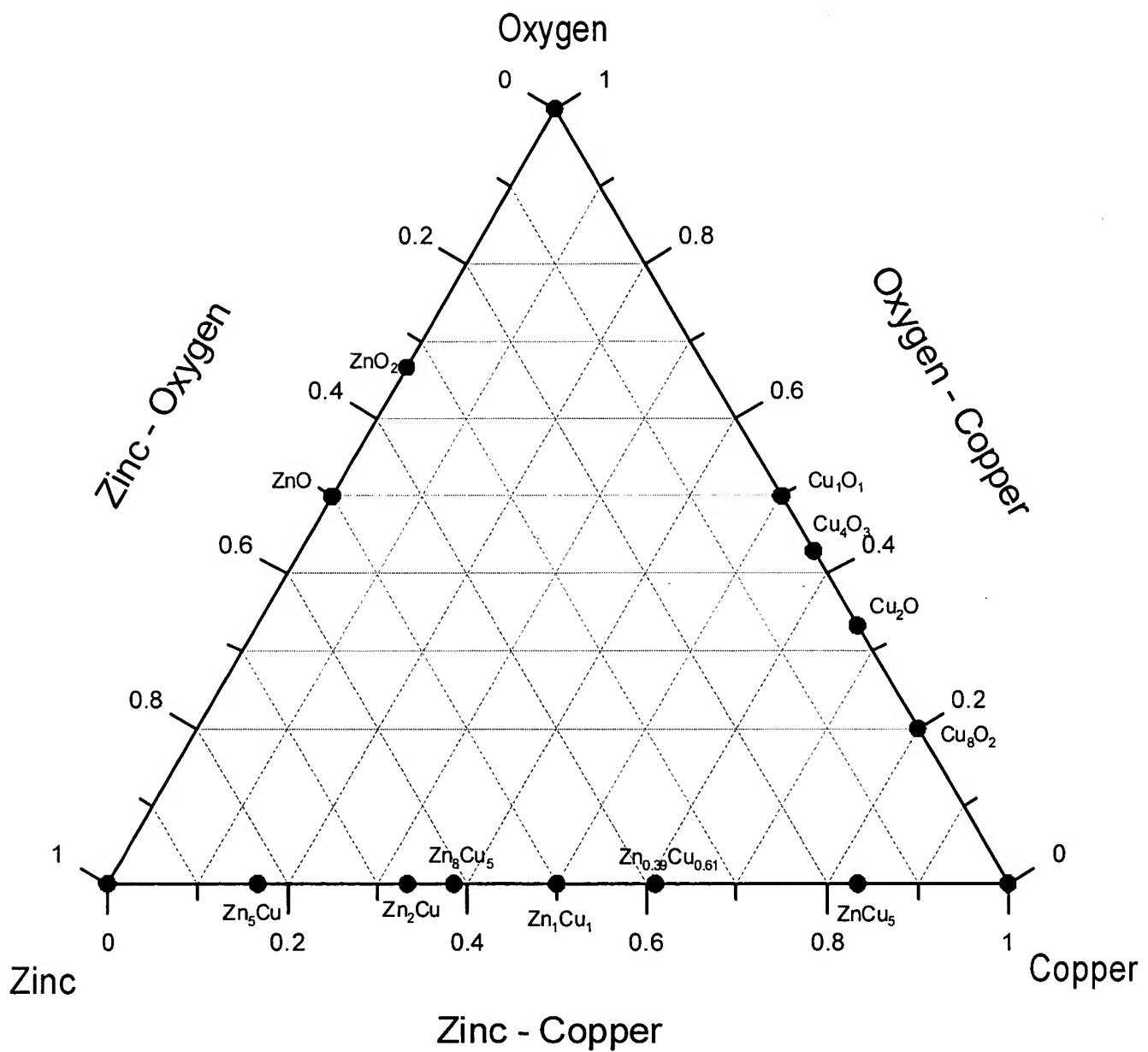


Fig. 17